



BEERKNOWLEDGE & TASTING





WATER

HOPS





GRAIN

YEAST

4 Key ingredients to make Beer

MALT

Barley is the preferred grain for beer. But the starch in a grain of barley isn't ready to be fermented into alcohol, so the barley is generally converted into malted barley, or "malt." The process of malting involves soaking the barley, allowing it to germinate,

and then stopping germination with heat.

HOPS

Hops are the spice of beer. They provide bitterness to balance the sweetness of the malt, as well as flavors and aromas ranging from citrus and pine to earthy and spicy.

YEAST

Yeast is the microorganism that is responsible for fermentation in beer. Yeast metabolizes the sugars extracted from grains, which produces alcohol and carbon dioxide, and thereby turns wort into beer. In addition to fermenting the beer, yeast influences the character and flavor.

ABV - ALCOHOL BY VOLUME

Alcohol by volume, or ABV, is used to measure the alcohol content of beer. Beers typically fall in the 3.0 to 13.0 percent ABV range, with the majority being 4.0 to 7.0 percent ABV.

IBU - INTERNATIONAL BITTERNESS UNIT

The standard used by brewers to indicate the bitterness level of a beer. A Pils which has 30 to 40 IBU units, will have the same level of bitterness as an English Ale that is indicated with the same numbers.



BEERPOURING THE PERFECT DRAFT









1. ANGLE

Hold the clean beer glass (or cup) at a 45 angle. Do not let the faucet touch the glass

2. TAP

Fully open the faucet by the base in one fluid motion. Do not let the faucet touch the beer

3. FINISH

Gradually straighten the glass as you pour. Aim for the center of the glass

4. HEAD

This technique will result in a perfect 1" foam pour



BEER READY GLASSWARE



"Flat" Beer
Film or grease attack the foam,
reducing the appeal



"False" Beer
Rapid loss of foam requiring refills
to "top off"



"Off" Taste Beer Odors from sanitizers, bar towels and improper storage affects quality

WATER TEST - Submerse the glass in water, when you lift it out the water should sheet off of the glass. If droplets cling that is a sign of film present.

SALT TEST - Sprinkle salt into a wet glass, it should adhere evenly to the glass vs. sinking to the bottom or sticking randomly. Salt will stick wherever a greasy film is present.

BUBBLE TEST - Beer in the glass should be clear with no bubbles rising from the bottom of the glass or clinging to the side. Bubbles indicate a dirty glass. (Exception: Sam Adams specialty glasses have an etched bottom to create release of bubbles from the bottom of the glass)

FOAM TEST - The foam or head should stay present as the guest drinks the beer. After each sip, a ring of foam should adhere to the glass. This is called lacing, and when a guest is finished you should be able to count the number of sips taken to finish the beer.



KEG TAPPING

- 1. Do not agitate the keg. If there has been excessive agitation during transport, allow the keg to settle for 1 to 2 hours before tapping
- 2. Make sure the beer faucet is in the off position prior to tapping
- 3. Make sure that the keg coupler handle is in the up (off) position
- 4. Align lug locks on tavern head with lug housing in top of keg; insert tavern head
- 5. Turn tavern head handle 1/4 turn clockwise; the tavern head is now secured to keg
- 6. Rotate on/off valve hand 1/4 turn clockwise to open beer and CO2 ports in keg. The keg is now tapped









Tapping the keg properly will activate both the beer and the CO2 pressure line. The keg will be ready to draw beer.

If kegs are attached to FOB regulators, open the airline by untwisting the screw top and letting out the air till the bobber rises to the top. Twist the screw top closed.



BEER TROUBLESHOOTING

WILD / FOAMY BEER

- Warm draft cooler/ frozen glasses
- Beer line system not properly refrigerated or insulated Beer drawn improperly
- Tap/faucets broken, leaking or dirty
- Too much pressure

FLAT BEER

- Beer too cold
- Not enough CO2 / Beer Gas pressure
- Sluggish (broken) pressure regulator
- Air compressor used for pressure
- Pressure required does not correspond to beer temp

CLOUDY BEER

- Beer over chilled or frozen in dispensing system
- Beer has been frozen in barrel
- Old beer hose in poor condition

















BRAND/NAME

Coors Light

STYLE

American Light Lager

COUNTRY OF ORIGIN

United States – Golden, CO

ABV IBU

4.2%

COLOR

Pale gold

AROMA

Floral hops, subtle grain

TASTE

Mild sweet malt with hint of bitterness and a crisp finish







BRAND	/NAME

Corona Extra

STYLE

Mexican Lager

COUNTRY OF ORIGIN

Mexico

ABV IBU

4.6%

COLOR

Golden

AROMA

Fruit, honey aromas and a touch of malt

TASTE

Crisp, clean and well-balanced between hops and malt

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BRAND/NAME

Heineken

STYLE

European Lager

COUNTRY OF ORIGIN

Holland

ABV IBU

5.0%

COLOR

Crisp, pale golden

AROMA

A shade of fruitiness

TASTE

Smooth, nicely blended bitterness, clean finish





BRAND/NAME

Miller Lite

STYLE

American Light Lager

COUNTRY OF ORIGIN

United States - Milwaukee, WI

ABV	· I	BU

4.2%

COLOR

Deep golden

AROMA

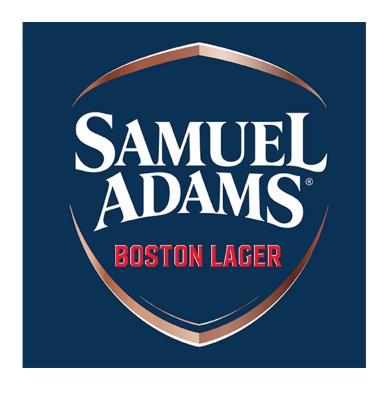
Medium malt and hop

TASTE

Hop-forward and solid malt character, smooth medium body with a crisp, clean finish

✓ PACKAGE	DRAFT
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BRAND/NAME

Samuel Adams Boston Lager

STYLE

Vienna-Style American Lager

COUNTRY OF ORIGIN

United States – Boston, MA

ABV IBU

5.0% 30

COLOR

Deep amber to golden

AROMA

Spicy hops, with a sweet biscuity malt

TASTE

A distinctive balance of spicy hops, slightly sweet roasted malts, and a smooth finish







BRAND/NAME

Sierra Nevada Hazy Little Thing NEIPA

STYLE

Hazy New England IPA

COUNTRY OF ORIGIN

United States – Boston, MA

ABV IBU

6.7%

COLOR

Hazy bright yellow

AROMA

Sweet citrus and pine

TASTE

Hoppy but not bitter, pine, pineapple and citron with a finish of faint spice and wheat

✓	PACKAGE		DRAFT
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BRAND/NAME

Stella Artois

STYLE

European Pilsner

COUNTRY OF ORIGIN

Belgium

ABV IBU

5.0% 24

COLOR

Golden

AROMA

Floral hops with toasted malt

TASTE

Slightly sweet with a clean, crisp hop finish

✓ PACKAGE D	RAFT
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BRAND/NAME

Voodoo Ranger Juicy Haze IPA

STYLE

New England IPA

COUNTRY OF ORIGIN

United States – Fort Collins, CO

ABV IBU

7.7% 50

COLOR

Golden

AROMA

Strong hop, citrus lemon, orange, lime and grapefruit

TASTE

Strong citrus flavors with orange and grapefruit, some piney elements with low tropical notes.





SELTZERTASTING NOTES



BRAND/NAME

White Claw Hard Seltzer

STYLE

Varies

COUNTRY OF ORIGIN

United States – Chicago, IL

ABV IBU

5.0% NA

COLOR

Clear, bubbly

AROMA

Slight fruit and malt sweetness

TASTE

Balanced fresh fruit flavors with mild malt sweetness.

\checkmark	PACKAGE		DRAFT
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BRAND/NAME

High Noon

STYLE

Varies

COUNTRY OF ORIGIN

United States

ABV IBU

4.5% NA

COLOR

Clear, bubbly

AROMA

Fruit forward

TASTE

Bursting with fresh-picked, sun-drenched, perfectly ripe flavors.









BRAND/NAME

Blue Moon Belgian White

STYLE

Wheat Ale

COUNTRY OF ORIGIN

United States – LOS ANGELES, CO

ABV IBU

5% 9

COLOR

Hazy orange-gold

AROMA

Fresh coriander and bright citrus orange peel

TASTE

Nice and complex with citrus notes, finishing fairly dry





DRAFT





BRAND/NAME

Bud Light

STYLE

Light American Lager

COUNTRY OF ORIGIN

United States – St. Louis, MO

ABV IBU

4.2%

COLOR

Bright gold

AROMA

Sweet malt, elegant hops

TASTE

Light, crisp lager with subtle notes of fruit and citrus followed by a quick, clean finish







BRAND/NAME

Michelob Ultra

STYLE

Light American Lager

COUNTRY OF ORIGIN

United States – St. Louis, MO

4.2%

COLOR

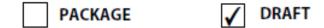
Light gold

AROMA

Mild biscuit and subtle light citrus

TASTE

Crisp and refreshing mild, malt taste with hints of citrus and a dry finish







BRAND/NAME

Modelo Especial

STYLE

Pilsner-Style Mexican Lager

COUNTRY OF ORIGIN

Mexico

ABV IBU

4.4%

COLOR

Rich, golden yellow

AROMA

Orange blossom and honey with a hint of herb

TASTE

Well-balanced, light hop character with a crisp, clean finish

PACKAGE ✓ DRAFT





LOS ANGELES INTERNATIONAL AIRPORT CORE DRAFT BEER







BRAND/NAME

Blue Moon Belgian White

STYLE

Wheat Ale

COUNTRY OF ORIGIN

United States – LOS ANGELES, CO

ABV IBU

5% 9

COLOR

Hazy orange-gold

AROMA

Fresh coriander and bright citrus orange peel

TASTE

Nice and complex with citrus notes, finishing fairly dry





DRAFT





BRAND/NAME

Bud Light

STYLE

Light American Lager

COUNTRY OF ORIGIN

United States – St. Louis, MO

ABV IBU

4.2%

COLOR

Bright gold

AROMA

Sweet malt, elegant hops

TASTE

Light, crisp lager with subtle notes of fruit and citrus followed by a quick, clean finish







BRAND/NAME

Michelob Ultra

STYLE

Light American Lager

COUNTRY OF ORIGIN

United States – St. Louis, MO

4.2%

COLOR

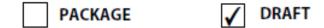
Light gold

AROMA

Mild biscuit and subtle light citrus

TASTE

Crisp and refreshing mild, malt taste with hints of citrus and a dry finish







BRAND/NAME

Modelo Especial

STYLE

Pilsner-Style Mexican Lager

COUNTRY OF ORIGIN

Mexico

ABV IBU

4.4%

COLOR

Rich, golden yellow

AROMA

Orange blossom and honey with a hint of herb

TASTE

Well-balanced, light hop character with a crisp, clean finish

PACKAGE ✓ DRAFT



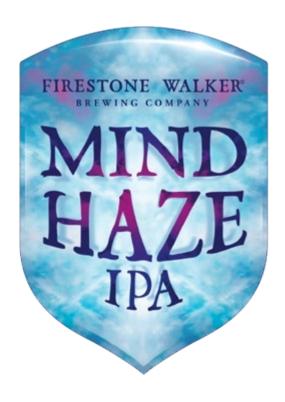


LOS ANGELES INTERNATIONAL AIRPORT REGIONAL BEER OPTIONS





REGIONAL IPA LEADERTASTING NOTES



BRAND/NAME

Firestone Mind Haze Tropical IPA

STYLE

IPA

COUNTRY OF ORIGIN

United States – Venice, CA

ABV IBU

6.2%

COLOR

Golden Yellow

AROMA

Intense hops with notes of tropical mango, pineapple & grapefruit

TASTE

Juicy, fruity, and creamy with pronounced tropical flavors and a true hazy-style mouthfeel.

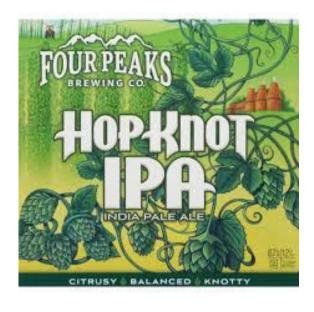




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REGIONAL IPA LEADERTASTING NOTES



BRAND/NAME

Four Peaks Hop Knot IPA

STYLE

IPA

COUNTRY OF ORIGIN

United States – Tempe, AZ

ABV IBU

6.7% 47

COLOR

Golden Orange

AROMA

Pine and citrus with notes of tropical mango, guava & passionfruit

TASTE

Bold citrus & pine hop flavor with crisp, clean bitterness and subtle malt sweetness





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NATIONAL IPA TASTING NOTES



BRAND/NAME

Goose Island IPA

STYLE

IPA

COUNTRY OF ORIGIN

United States - Chicago, Illinois

ABV IBU

5.9%

COLOR

Clear, Orange-Gold

AROMA

Citrus, grapefruit, and pine with floral notes

TASTE

Bold and packed with flavors of citrus and bitter grapefruit balanced with mild malt and a strong hop finish.





NATIONAL IPA TASTING NOTES



BRAND/NAME

Lagunitas IPA

STYLE

IPA - American

COUNTRY OF ORIGIN

United States - Petaluma, California

ABV IBU

6.2% 51

COLOR

Clear, Amber Golden

AROMA

Notes of biscuit, malt with slight pine and sweetness

TASTE

Caramel malt barely provides the richness that mellows out the twang of the hope

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NATIONAL IPA TASTING NOTES



BRAND/NAME

Stone IPA

STYLE

IPA

COUNTRY OF ORIGIN

United States – Escondido, California

ABV IBU

6.9%

COLOR

Clear Golden

AROMA

Intense lemon rind, fruity cereal and piney hops

TASTE

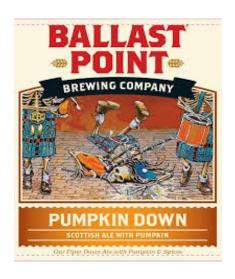
Medium body with flavors of citrus, pine and tropical fruit balanced with light-toasted malt. Finish is clean with a lingering bitterness.





REGIONAL SEASONAL – BALLAST POINT SEASONAL TASTING NOTES

COUNTRY OF ORIGIN – United States – San Diego, California





BRAND/NAME

Ballast Point Pumpkin Down

<u>SEASON</u>	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Fall	Scottish Ale	5.8%	22	Rich Amber

AROMA

Pumpkin pie, toffee

TASTE

Classic pumpkin and fall spices of cinnamon, nutmeg, cloves, and allspice, creating a warm and festive flavor

BRAND/NAME

Ballast Point Victory at Sea

<u>SEASON</u>	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Winter	Imperial Porter	10%	60	Dark Brown

AROMA

Espresso, roasted barley, vanilla, & hazelnut

TASTE

Robust porter with flavors of vanilla and cold brewed coffee, balanced by sweet caramel undertones from the malt.

Delay

REGIONAL SEASONAL – FOUR PEAKS SEASONAL

TASTING NOTES

COUNTRY OF ORIGIN – United States – Tempe, Arizona





BRAND/NAME

Four Peaks Pumpkin Porter

<u>SEASON</u>	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Aug-Nov	Porter	5.1%	9	Opaque Brown/Purple

AROMA

Pumpkin pie & spice

TASTE

Medium bodied beer with flavors of pumpkin, nutmeg, allspice, clove, and ginger contributing to a warm, comforting, and slightly sweet profile.

BRAND/NAME

Four Peaks Double Pumpkin Porter

<u>SEASON</u>	<u>STYLE</u>	<u>ABV</u>	<u>IBU</u>	COLOR
Oct-Nov	Porter	8.5%	9	Brownish-Black

AROMA

Sweet Malt, Pumpkin Pie

TASTE

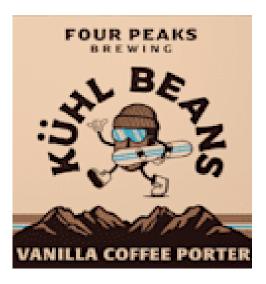
Full bodied version of the original Pumpkin Porter with increased pumpkin flavor and spice and a noticeable maltiness.

Delawar

REGIONAL SEASONAL – FOUR PEAKS SEASONAL TASTING NOTES

COUNTRY OF ORIGIN – United States – Tempe, Arizona





BRAND/NAME

Four Peaks Oktoberfest

<u>SEASON</u>	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Sep-Oct	Vienna-Lager	6%	28	Amber

AROMA

Sweet malt, subtle herbal hops

TASTE

Elegant malt flavor with a touch of herbal hops. Light finish & easy drinking beer

BRAND/NAME

Four Peaks Kuhl Beans

<u>SEASON</u>	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Nov-Feb	Porter	8.1%	15	Deep Mahogany

AROMA

Vanilla ice cream, toasted grain, coffee

TASTE

Medium bodied with a smooth and creamy texture. Flavors of roasted malt, Madagascar vanilla, and baker's chocolate balanced with a dry, earthy finish

Delaware

REGIONAL SEASONALTASTING NOTES



BRAND/NAME

Green Flash Seasonal

STYLE

Varies

COUNTRY OF ORIGIN

United States – San Diego, California

ABV IBU

Varies Varies

COLOR

Varies

AROMA

Varies

TASTE

Varies



NATIONAL SEASONAL – SAM ADAMS SEASONAL TASTING NOTES

COUNTRY OF ORIGIN – United States -Boston, Massachusetts



SEASON	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Summer	Wheat Ale	5.3%	8	Golden

AROMA

Citrus and wheat with floral and pepper notes

TASTE

Light, crisp wheat ale with prominent citrus flavors, notably orange, lemon and lime, balanced with a subtle spice and toasted grain.



<u>SEASON</u>	<u>STYLE</u>	<u>ABV</u>	<u>IBU</u>	COLOR
Spring	White Ale	5.3%	12	Golden Hazy

AROMA

Tangerine, black pepper and wheat

TASTE

Zesty and smooth with flavors of bright orange and subtle vanilla with a hint of spice



NATIONAL SEASONAL – SAM ADAMS SEASONAL TASTING NOTES

COUNTRY OF ORIGIN – United States -Boston, Massachusetts





<u>SEASON</u>	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Fall	Lager	5.3%	16	Deep Red Amber

AROMA

Caramel, roasted malt, dark bread

TASTE

Luscious caramel accompanied by sweet bread flavors and roasted malt. Finish is long with lingering notes of caramel, vanilla, clove and baking spice.

SEASON	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Winter	Lager	5.6%	22	Deep Ruby

AROMA

Cinnamon, ginger, orange peel and malted barely

TASTE

Rich, full bodied and robust with a nice balance of roasted malt flavors, warm spices and subtle notes of citrus



NATIONAL SEASONAL TASTING NOTES



BRAND/NAME

Leinenkugel's Summer Shandy

SEASON

Year-Round

STYLE

Weiss Beer

COUNTRY OF ORIGIN

United States – Chippewa Falls, Wisconsin

ABV IBU

4.2%

COLOR

Pale Yellow

AROMA

Bright lemon zest

TASTE

Light bodied, crisp and refreshing with flavors of lemonade and soft notes of wheat



NATIONAL SEASONAL – LEINENKUGEL'S SEASONAL SHANDY TASTING NOTES

COUNTRY OF ORIGIN – United States – Chippewa Falls, Wisconsin



<u>SEASON</u>	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Spring	Weiss	4.2%	11	Golden Yellow

AROMA

Fresh grapefruit

TASTE

Crisp, semi-sweet flavor profile with prominent grapefruit flavor, balanced by the traditional Weiss beer base, resulting in a light-bodied, refreshing beverage



SEASON	STYLE	<u>ABV</u>	<u>IBU</u>	COLOR
Spring/Summer	American Light Lager	4%	7	Hazy Gold

AROMA

Lemon rind and honey

TASTE

Light bodied, filled with flavors of fresh citrus followed by a subtle honey sweetness and crisp finish.



NATIONAL SEASONAL – LEINENKUGEL'S SEASONAL SHANDY TASTING NOTES

COUNTRY OF ORIGIN – United States – Chippewa Falls, Wisconsin





AROMA

Sweet malt and subtle hops

TASTE

Balanced and smooth with rich, toasted malt flavors and subtle spicy hop notes.



<u>SEASON</u>	<u>STYLE</u>	<u>ABV</u>	<u>IBU</u>	COLOR
Winter	Vienna-Style Lager	4.9%	20	Copper Red

AROMA

Sweet caramel and grain

TASTE

Dry-hopped, crisp Vienna-style lager with a smooth caramel flavor, malty sweetness and a bright hop finish



REGIONAL AMBER/DARK/REDTASTING NOTES



BRAND/NAME

Four Peaks Kilt Lifter Ale

STYLE

Amber Ale

COUNTRY OF ORIGIN

United States – Tempe, Arizona

ABV IBU

6.0%

COLOR

Amber

AROMA

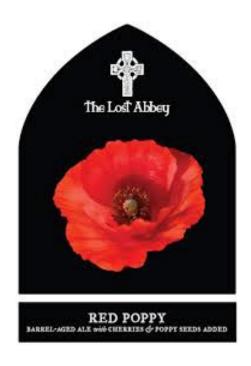
Sweet malt, biscuit, smoke

TASTE

Strong malt character with flavors of caramel and roasted barley. Notes of toffee and toast with a subtle hint of smoke. Finish is clean and dry.



REGIONAL AMBER/DARK/REDTASTING NOTES



BRAND/NAME

The Lost Abbey Red Poppy Ale

STYLE

Flanders Red Ale

COUNTRY OF ORIGIN

United States – San Marcos, California

ABV IBU

5% NA

COLOR

Reddish Brown

AROMA

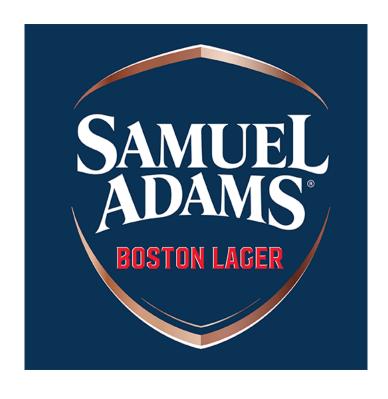
Rich, Red Fruit

TASTE

Complex combination of sour cherry, plum and red wine flavors accented with notes of chocolate and vanilla



NATIONAL AMBER/DARK/RED TASTING NOTES



BRAND/NAME

Samuel Adams Boston Lager

STYLE

Vienna-Style American Lager

COUNTRY OF ORIGIN

United States – Boston, MA

ABV IBU

5.0% 30

COLOR

Deep amber to golden

AROMA

Spicy hops, with a sweet biscuity malt

TASTE

A distinctive balance of spicy hops, slightly sweet roasted malts, and a smooth finish



NATIONAL AMBER/DARK/RED TASTING NOTES



BRAND/NAME

Shiner Bock

STYLE

American Style Amber Lager

COUNTRY OF ORIGIN

United States – Shiner, Texas

ABV IBU

4.4%

COLOR

Clear Amber

AROMA

Subtle, roasted malt

TASTE

Slightly sweet with notes of toasted nuts and caramel



REGIONAL LAGER/PALE ALETASTING NOTES



BRAND/NAME

SanTan Devil's Ale

STYLE

Pale Ale - American

COUNTRY OF ORIGIN

United States – Chandler, Arizona

ABV IBU

5.5% 45

COLOR

Clear Amber Gold

AROMA

Pine, citrus

TASTE

Sinfully crisp taste with flavors of grapefruit and citrus hops balanced by a firm caramel, malt flavor



REGIONAL LAGER/PALE ALETASTING NOTES



BRAND/NAME

Firestone Walker 805 Blonde Ale

STYLE

Blonde Ale

COUNTRY OF ORIGIN

United States – Venice, California

ABV IBU

4.7%

COLOR

Deep Gold

AROMA

Citrus, and sweet malt with wisps of banana and pear

TASTE

Bready malt and a moderate sweetness that morphs into a soft bitterness. Flavors of floral hops, lemon and orange. Finish is short and dry, without any lingering bitterness, leaving a refreshing sensation



REGIONAL LAGER/PALE ALETASTING NOTES



BRAND/NAME

Kings & Convicts Legion Lager

STYLE

American Lager

COUNTRY OF ORIGIN

United States - San Diego, California

ABV IBU

4.5%

COLOR

Light Golden

AROMA

Sweet malt, soft hops

TASTE

Strong malty backbone with a crisp and refreshing finish.



NATIONAL LAGER/PALE ALE TASTING NOTES



BRAND/NAME

New Belgium Fat Tire

STYLE

Amber Ale

COUNTRY OF ORIGIN

United States – Fort Collins, CO

ABV IBU

5.2% 22

COLOR

Light copper

AROMA

Bready, sweet malt with hints of caramel

TASTE

Flavorful and well-balanced with malty, biscuity sweetness, light herbal hops and notes of fruity yeast



NATIONAL LAGER/PALE ALE TASTING NOTES



BRAND/NAME

Kona Big Wave

STYLE

Golden Ale

COUNTRY OF ORIGIN

United States – Kailua-Kona, Hawaii

ABV IBU

4.4%

COLOR

Clear, Golden

AROMA

Delicate, tropical hops

TASTE

Smooth, easy drinking, light-bodied golden ale with subtle notes of tropical pineapple and passionfruit



NATIONAL LAGER/PALE ALE TASTING NOTES



BRAND/NAME

Sierra Nevada Pale Ale

STYLE

American Pale Ale

COUNTRY OF ORIGIN

United States – Chico, California

ABV IBU

5.6% 38

COLOR

Clear, Golden Amber

AROMA

Grass, pine, zesty orange

TASTE

Light body with balanced hops and flavors of slightly toasted malt, clean pine, and grapefruit zest

